Abstract

Mobile Ad-hoc Network (MANET) is a self-configuring wireless network of movable and
independent nodes which operate without the support of any permanent infrastructure, hence
MANET has dynamic topology. In MANET, each node forwards traffic unrelated to its own use.
Despite the proliferation of MANET, it is prone to various attacks which include blackhole attack,
grayhole attack, flooding attack, wormhole attack etc. This paper presents the analysis of the
effect of various security attacks on the performance of AODV routing protocol against various
parameters such as throughput, packet delivery ratio, packet loss, and mean-hop, normalized
routing overhead and end-to-end delay.

References

- Andel, Todd R. , and Alec Yasinsac. &quot;Surveying security analysis techniques in
  MANET routing protocols. &quot; Communications Surveys & Tutorials, IEEE 9. 4 (2007):
  70-84.
- Perkins, Charles E. , and Elizabeth M. Royer. &quot;Ad-hoc on-demand distance vector
Index Terms

Computer Science Security

Keywords

AODV MANET Blackhole Attack Flooding Attack Grayhole Attack Attacker node
Selfish node